

Claims

Claims 1-8 (Canceled).

9. (Previously Presented) A compound according to the formula $\text{La}_{1-x}\text{Y}_x\text{Sc}_3(\text{BO}_3)_4$ where x varies from about 0.2 to about 0.4.

10. (Previously Presented) The compound according to claim 9 where x varies from about 0.25 to about 0.35.

Claims 11-17 (Canceled).

18. (Currently Amended) ~~A nonlinear optical material,~~ The compound according to claim 9 having a formula $\text{La}_{0.7}\text{Y}_{0.3}\text{Sc}_3(\text{BO}_3)_4$.

Claims 19-28 (Canceled).

29. (Currently Amended) A composition, comprising:
a first material of the formula $\text{La}_{1-x}\text{Y}_x\text{Sc}_3(\text{BO}_3)_4$ where x varies from about 0.2 to about 0.4; and
a second material.

30. (Previously Presented) The composition according to claim 29 where x varies from about 0.25 to about 0.35.

31. (Currently Amended) The composition according to claim ~~[[19]]~~ 29 where the first material is crystallized in the R32 space group.

Claims 32-38 (Canceled).

39. (Previously Presented) A device for generating high energy UV light, comprising:
a laser; and
a nonlinear optical material having the formula $\text{La}_{1-x}\text{Y}_x\text{Sc}_3(\text{BO}_3)_4$ where x varies from about 0.2 to about 0.4.

40. (Previously Presented) The device according to claim 39, where x varies from about 0.25 to about 0.35.

41. (Currently Amended) The device according to claim ~~[[33]]~~ 39 where the material is crystallized in the R32 space group.

Claims 42-47 (Canceled).

48. (Previously Presented) The device according to claim 39 where the nonlinear optical material is $\text{La}_{0.7}\text{Y}_{0.3}\text{Sc}_3(\text{BO}_3)_4$.

Claims 49-64 (Canceled).